# AY 2027　Round 2

# Master's Program
# (Enrollment in April 2027)
# Kobe University Graduate School of Engineering
# Special Entrance Examination
# for International Students

# Application Guide

**Since you will be registering online, please keep the following in mind when applying.**

- **There is a lot of registration information, so please register with plenty of time.**
- **To apply, you will need equipment such as a computer and printer, an email address, a photo of your face, and PDF files of your application documents.**
  ***Important notices regarding the entrance examination will be sent to the registered email address, so please use an email address that you can check regularly.**
- **Please carefully check in advance how to pay the examination fee and how to submit application documents.**
  ***Some application documents require you to submit originals by mail, etc.**

## Graduate School of Engineering

## Kobe University

## Kobe University Graduate School of Engineering

Kobe University Graduate School of Engineering was established as part of the reorganization of the Graduate School of Science and Technology in April 2007. Both the Master's and Doctoral Programs of the Graduate School of Engineering consist of five departments: Architecture, Civil Engineering, Electrical and Electronic Engineering, Mechanical Engineering, and Chemical Science and Engineering. A Master of Philosophy in Engineering is granted upon completion of the Master's Program at the Graduate School of Engineering.

A "Basic Policy for the English course of Undergraduate and Graduate School of Engineering" has been established. This policy aims to promote lectures in English or English with Japanese additional explanation.

## Admission Policy of Kobe University Graduate School of Engineering

Engineering refers to an academic discipline dedicated to developing an understanding of nature to serve humanity, pursuing the principles of nature to solve social issues, and building a sustainable society in which people can live in harmony with nature.

The Graduate School of Engineering promotes fundamental scientific research, engages in applied research that contributes to society, and conducts research and education for developing individuals demonstrating advanced and broad knowledge, extensive creativity, high ethical standards, and global mindedness. The Graduate School is committed to enrolling students from a wide range of backgrounds, including people who have conducted and published research at a company, laboratory, or the like, and international students.

The Graduate School of Engineering welcomes applications from those who meet the criteria below, in addition to the criteria set forth in the Admission Policy of Kobe University.

### The ideal applicants that the Master's Program of the Graduate School of Engineering hopes to accept are as follows:

**1.** Students who show enthusiasm for identifying the principles underlying natural phenomena and wish to contribute towards human society through science and technology.

[Required competences: critical thinking, good judgement, expression, interest, and motivation.]

**2.** Students who possess high ethical standards and are able to understand and consider the impact of science and technology on human society.

[Required competences: critical thinking, good judgement, expression, interest, and motivation.]

**3.** Students who derive satisfaction from identifying novel challenges and finding creative solutions.

[Required competences: critical thinking, good judgement, expression, interest, and motivation.]

**4.** Students who use their international experience to increase their cultural awareness, particularly with respect to the potential applications of their research.

[Required competences: critical thinking, good judgement, expression, initiative, cooperativeness, interest, and motivation.]

**5.** Students who demonstrate a passion for acquiring advanced and specialized academic knowledge and capabilities in order to conduct cutting-edge research.

[Required competences: knowledge, technique, critical thinking, good judgement, expression, interest, and motivation.]

**Basic Policy for the Selection of Students**:

In order to select students demonstrating the qualities above, in line with the Diploma Policy and Curriculum Policy of the Master's Program of the Graduate School of Engineering, the Graduate School assesses various competences in the entrance examinations below.

The General Entrance Examination, Entrance Examination for Recommended Candidates, Special Entrance Examination for Working Adults, and Special Entrance Examination for International Students are designed to assess knowledge, technique, critical thinking, good judgement, expression, initiative, cooperativeness, interest, and motivation.

For admissions enquiries please contact the Master's Program of the Graduate School of Engineering:

Kobe University Graduate School of Engineering, Student Affairs Section
1-1, Rokkodai-cho, Nada-ku, Kobe 657-8501
Tel: +81-(0)78-803-6350
E-mail: eng-kyomugakusei@office.kobe-u.ac.jp
Graduate School of Engineering Website: https://www.eng.kobe-u.ac.jp/
Kobe University Website: https://www.kobe-u.ac.jp/

# Table of Contents

**Ⅰ Application Guide (AY 2027 Round 2) for Special Entrance Examination for International Students to the Master's Program (Enrollment in April 2027) of the Graduate School of Engineering**

1. Enrollment Quota…… 1
2. Required Qualifications …… 1
3. Application Period and Procedures …… 2
4. ID for the Examination …… 8
5. Methods, Dates, and Place of Examination …… 8
6. Publication of Successful Applicants …… 8
7. Admission Procedures …… 9
8. Important Notes …… 9
9. Screening of Eligible Applicants (5) …… 9
10. Handling of Personal Data …… 10
11. Control and Prevention of Infectious Diseases …… 10
12. Other Information …… 11

Appendix: Subjects, Date, Place of Examination …… 12

**Ⅱ Information on the Master's Program Curricula (Enrollment in April 2027) of the Graduate School of Engineering**

1. Educational Philosophy and Objectives …… 18
2. Approach and Features of Program Curricula …… 18
3. Departments, Divisions, and Fields of Education and Research …… 20
4. Department Details …… 21
5. Educational and Research Fields, Faculty, and Research Subjects (Keywords) …… 23

(Note)
All dates and times listed in this Application Guide are in Japan time.

# Ⅰ Application Guide (AY 2027 Round 2) for Special Entrance Examination for International Students to the Master's Programs (Enrollment in April 2027) of the Graduate School of Engineering

## 1. Enrollment Quota

| Department | Enrollment Quota | Note |
|---|---|---|
| **Department of Architecture** | A Few (Undefined) | A few students of each department can select the Digital Medical Engineering Creation Course. (See page 18) |
| **Department of Civil Engineering** | A Few (Undefined) | |
| **Department of Electrical and Electronic Engineering** | A Few (Undefined) | |
| **Department of Mechanical Engineering** | A Few (Undefined) | |
| **Department of Chemical Science and Engineering** | A Few (Undefined) | |

## 2. Required Qualifications

The eligible individual must be a foreigner with International Student alien residential status (or be eligible for this status in April 2027) and fully meet the condition or conditions under one of the following items.

(1) The individual has completed an undergraduate program or will have completed an undergraduate program by March 31, 2027. Notwithstanding the foregoing, any individual who has graduated from an undergraduate program of Kobe University Faculty of Engineering or is currently enrolled in the program with a prospective graduation date is excluded in the case of the Department of Electrical and Electronic Engineering.

(2) The individual has completed sixteen years of academic curricula outside of Japan or will have completed the curricula by March 31, 2027.

(3) The individual has completed the aforementioned sixteen years of academic curricula offered by institutions outside Japan as correspondence programs while living in Japan or will have completed the curricula by March 31, 2027.

(4) Applicants who have received a bachelor's degree by completing a three-year or longer program at a foreign university accredited by the respective foreign government, or designated by the Minister of MEXT (this includes applicants who have completed an appropriate program offered by the respective foreign educational facility through distance learning while residing in Japan, and applicants who have completed an appropriate foreign educational program at an educational facility in Japan as specified in the previous category).

(5) The individual has been recognized as having the academic ability equivalent to or better than the ability of individuals who have completed an undergraduate curriculum, based on an application evaluation by the Kobe University Graduate School of Engineering on an individual basis, and the individual is going to be 22 years of age or older by March 31, 2027.

(Note 1) See page 16 if applying based on item (5) above.

(Note 2) The individual who may be eligible based on item (5) above is a graduate of a junior college, technical college, or vocational school or has completed a curriculum offered by a school in the "miscellaneous" category.

## 3. Application Period and Procedures

Please follow the procedures in the order of [1] and [2] below.

[1] Application registration and payment of the application fee on the Online Application website

Online Application website: **https://e-apply.jp/ds/kobe-u/**

Period for application registration and payment of the application fee:
Tuesday, December 8, 2026 at 12:00 a.m. to Thursday, December 17, 2026 at 4:59 p.m.

Application registration and payment of the application fee are available on the web page of the Graduate School of Engineering. (https://www.eng.kobe-u.ac.jp/examinee/master_202701.html)

Please refer to the "Online Application Procedure" and "Online Application Site Entry Guide" posted on the Graduate School of Engineering web page to register your application and pay the application fee.

Follow the instructions on the Online Application website to register your application information, and upload the documents that are marked with "✓" in the "Procedures on the Online Application website" column in the "List of Application Documents" on the next page. (If not specified, please upload in PDF format.)

If you have any problems in accessing the Online Application website, please contact the Academic Affairs Section of the Graduate School of Engineering.

[2] Submission of Application Documents

Documents marked with "✓" in the "Hard copy submission" column in the "List of Application Documents" on the next page must be submitted by mail or brought to the application counter during the application period.

Send or submit application documents to: Academic Affairs Section
Graduate School of Engineering
Kobe University
1-1 Rokkodai-cho, Nada-ku, Kobe 657-8501, Japan
Tel: +81(0)78-803-6350

≪By mail≫
Application Documents Submission Period: Monday, December 14, 2026 to Thursday, December 17, 2026
(Must arrive by 5:00 p.m.)

- After completing the application registration and payment of the application fee on the Online Application website, print out in color the "Address Label for Application" on page 3 of the "Application Form" displayed on the My Page of the Online Application website, paste it onto a square 2-size envelope and enclose the hard copy documents listed in the "List of Application Documents". *You don't need to submit an "the Application Form."
- Please send by registered express mail.

≪If you bring your application to the counter≫
Application Documents Submission Period: Monday, December 14, 2026 to Thursday, December 17, 2026
Hours: 9:30 a.m. to 4:00 p.m. (Except Saturdays, Sundays, holidays and from noon to 1:00 p.m. on weekdays)

After completing the application registration and payment of the application fee, please print out the "Address Label for Application" on page 3 of the "Application Form" displayed on the My Page of the Online Application website, and submit it together with the hard copy documents listed in the "List of Application Documents". *You don't need to submit an "the Application Form."

List of Application Documents

| Application Documents | Required for the following applicants | Procedures on the Online Application website | Hard copy submission | Notes |
|---|---|---|---|---|
| Photograph data | All Applicants | ✓ | — | Please upload photograph data according to the instructions on the Online Application website. The photo must be taken within three months prior to application, showing a front view of your upper body, without a hat and with a plain background. Accepted file formats are JPEG, PNG, BMP, or HEIC.<br>The uploaded photo will be used on your ID for the examination, and identity verification will be conducted at the time of the examination. If the photo has been altered or edited to the extent that it is difficult to confirm that it is a photo of you, you may not be allowed to continue with the examination. |
| Entrance Exam Fee: 30,000 Japanese yen | All Applicants | ✓ | — | Please complete the payment through the Online Application website. Any transfer fees must be borne by the applicant. Japanese government-sponsored international students who will continue to be so after enrollment do not have to pay the fee. In addition, special measures will be taken to exempt applicants affected by severe disasters from the examination fee. For details, please check the Kobe University website. |
| Recommendation referral from the academic supervisor of the university that you have graduated from | Applicable students only | — | ✓ | Prepared by the professor you studied with at your university or any other institution that you graduated from. If the referral is written in a language other than English, please attach an English or Japanese translation of the document. (Not required for the students currently enrolled in the Kobe University Faculty of Engineering or Graduate School of Engineering.) |
| Academic Transcript | Applicable students only | — | ✓ | Prepared by the dean (or the president) of your university or any other institution that you have graduated from. (Not required if the applicants have the required qualification (5), the applicants are expected to graduate from the Faculty of Engineering of Kobe University by March 31, 2027, or the applicants are currently enrolled in the Graduate School of Engineering of Kobe University as Non-Degree Seeking Research Students.) If the transcript is written in a language other than English, please attach an English or Japanese translation of the document. If you have transferred from another school, please also submit a transcript from your previous school. |
| Certificate of Graduation (Prospective)<br>or<br>Certificate of Completion (Prospective) | Applicable students only | — | ✓ | Prepared by the dean (or the president) of your university or any other institution that you graduated from. (Not required if the applicants have the required qualification (5), the applicants are expected to graduate from the Faculty of Engineering of Kobe University by March 31, 2027, or the applicants are currently enrolled in the Graduate School of Engineering of Kobe University as Non-Degree Seeking Research Students.) If the transcript is written in a language other than English, please attach an English or Japanese translation of the document.<br>*For certificates related to Chinese universities, refer to (5) in the [Notes] |

| | | | | |
|---|---|---|---|---|
| A document proving the unofficial acceptance prepared by the faculty member of the education and research field of your first choice | All Applicants | ✓<br>≪File Upload 1≫<br>(.pdf) | — | Submit the document (no format specified) prepared by the relevant faculty members of the Graduate School of Engineering.<br>Either the designated form (https://www.eng.kobe-u.ac.jp/examinee/master_202701.html) or a form prepared by a faculty member is acceptable. |
| Survey Sheet | All Applicants | ✓<br>≪File Upload 2≫<br>(.pdf) | — | Please fill in the necessary information and upload it.<br>[Form download]<br>https://www.eng.kobe-u.ac.jp/examinee/master_202701.html |
| TOEIC L&R Public Test<br>or<br>Original of TOEFL Test Taker (Examinee) Score Report | Applicants for Department of Architecture, Department of Civil Engineering and Department of Mechanical Engineering | — | If you are submitting a TOEFL score report<br>✓<br>(If you are submitting TOEIC public test results, please refer to the procedure for the TOEIC Public Test Score Confirmation Service") | Only tests taken on or after January 21, 2025 will be considered valid.<br>--When submitting TOEIC scores<br>Only results from TOEIC Listening & Reading Public Tests conducted in Japan are accepted. Scores from tests conducted outside Japan and TOEIC-IP tests for group examinations are not accepted.<br>Please follow the instructions in "Procedure for the TOEIC Public Test Score Confirmation Service" below and submit your score via the TOEIC application website.<br>A submission of the “official certificate” is not accepted.<br>If you are unable to submit your grades via the application site within the application period, your application will be considered incomplete and your application will not be accepted.<br>--When submitting TOEFL scores<br>Only TOEFL iBT (internet-based test) scores are accepted for TOEFL score reports; TOEFL iBT Home Edition and TOEFL ITP for group examinations are not accepted.<br>Please submit the applicant’s original score report with the applicant’s photograph together with a photocopy (A4), or submit a printout of the downloaded PDF file (A4) of the Test Taker Score Report.<br>Applicants who submit a TOEFL score report must ensure that an Institutional Score Report (official score report) will be sent to Kobe University (DI code: B071) at a later date. |

| | | | | |
|---|---|---|---|---|
| TOEIC L&R Public Test<br>Or<br>Original of TOEFL Test Taker (Examinee) Score Report | Applicants for Department of Electrical and Electronic Engineering | — | If you are submitting scores obtained on or after January 21, 2025<br>✓<br>(If you are submitting scores obtained on or after January 21, 2025, please refer to the procedure for the TOEIC Public Test Score Confirmation Service") | -- When submitting TOEIC scores<br>Only results from TOEIC Listening & Reading Public Tests conducted in Japan are accepted. Scores from tests conducted outside Japan and TOEIC-IP tests for group examinations are not accepted.<br>Tests taken on or after April 1, 2024 are considered valid.<br>If you are submitting scores obtained between April 1, 2024, and January 20, 2025, please submit an A4 printout of the digital official certificate.<br>If you are submitting scores obtained on or after January 21, 2025, please follow the instructions in "Procedure for the TOEIC Public Test Score Confirmation Service" below and submit your score via the TOEIC application website.<br>A submission of the “official certificate” is not accepted.<br>If you are unable to submit your grades via the application site within the application period, your application will be considered incomplete and your application will not be accepted.<br>-- When submitting TOEFL scores<br>Only TOEFL iBT (internet based test) scores taken on or after January 21, 2025 are accepted; TOEFL iBT Home Edition and TOEFL ITP scores for group examinations are not accepted.<br>Please submit the applicant’s original score report with the applicant’s photograph together with a photocopy (A4), or submit a printout of the downloaded PDF file (A4) of the Test Taker Score Report.<br>Applicants who submit a TOEFL score report must ensure that an Institutional Score Report (official score report) will be sent to Kobe University (DI code: B071) at a later date. |

| | | | | |
|---|---|---|---|---|
| TOEIC L&R Public Test<br>Or<br>Original of TOEFL Test Taker (Examinee) Score Report | Applicants for Department of Chemical Science and Engineering | — | If you are submitting a TOEFL score report<br>✓<br>(If you are submitting TOEIC public test results, please refer to the procedure for the TOEIC Public Test Score Confirmation Service") | Tests taken on or after January 21, 2025 are considered valid.<br>-- When submitting TOEIC scores<br>Only results from TOEIC Listening & Reading Public Tests conducted in and outside of Japan will be accepted. TOEIC-IP test scores for group examinations will not be accepted.<br>Please follow the instructions in "Procedure for the TOEIC Public Test Score Confirmation Service" section below and submit your score via the TOEIC application website.<br>A submission of the official certificate (paper version) issued by the Institute for International Business Communication (IIBC) is NOT accepted.<br>If you are submitting TOEIC scores taken outside Japan, submit the original and a photocopy (A4) of your official TOEIC certificate.<br>**If you fail to submit your results via the application website within the time limit, your application will not be accepted because you have not submitted your scores.**<br>-- When submitting TOEFL scores<br>Only TOEFL iBT (internet-based test) scores will be accepted. TOEFL iBT Home Edition and TOEFL ITP scores for group examinations will not be accepted.<br>Please submit the applicant's original and a photocopy (A4) of the original score report with the applicant's photograph, or submit a printout of the PDF version (A4) of the Test Taker Score Report downloaded from the website.<br>Applicants who submit a TOEFL score report must ensure that an Institutional Score Report (official score report) will be sent to Kobe University (DI code: B071) at a later date. |
| Permission for examination entry | Applicant currently enrolled in a graduate school;<br>Applicant currently employed by a company | — | ✓ | Individuals currently enrolled in a graduate school (except for individuals with prospective completion by March 2027) must submit permission for examination entry issued by the chief faculty member of his/her graduate school, and individuals currently employed by a company or any organization of a similar nature must submit permission issued by his/her line manager. |
| Residence Certificate or the like | Applicant who is a foreigner (only applicable if the applicant is an alien resident of Japan) | ✓<br>≪File Upload 3≫<br>(.pdf) | — | An applicant who is a foreigner and an alien resident of Japan must submit a photocopy of his/her residence certificate (the certificate is valid only if issued within the last 30 days from the day of submission) or any other equivalent document (submit a photocopy of both sides of your resident card). |
| Certificate of Japanese Government Scholarship Student | Applicable students only | — | ✓ | If you are an international student awarded a Japanese Government Scholarship, include a certificate issued by the university where you are currently enrolled. (Not required for students currently enrolled in the Kobe University Faculty of Engineering or Graduate School of Engineering.) |
| Application document confirmation sheet | All the applicants | ✓<br>≪File Upload 4≫<br>(.pdf) | — | Please fill in the necessary information and upload it.<br>[Form download]<br>https://www.eng.kobe-u.ac.jp/examinee/master_202701.html |

〔Note〕

(1) As a general rule, the documents submitted must be the originals, and no photocopy of the document will be acceptable. (Except where indicated that the photocopy is acceptable, or when it is necessary to submit the photocopy with the original version.)

(2) As a general rule, application documents shall not be returned to the applicant.

(3) Any insufficiently prepared document is rejected, so please use extra caution for any item that is incomplete or includes inaccurate information.

(4) In the event an applicant falsified the application details or failed to satisfy the eligibility requirements for the application, the enrollment shall be revoked, even if the person has been successfully enrolled.

(5) When submitting a "Certificate of Graduation (or Expected Graduation) from a Chinese University", please submit the certificate as follows:

●Graduates

In addition to the original graduation certificate issued by your university, please apply to have the electronic verification email for the English Bachelor's Degree Certificate (Online Verification Report of Higher Education Degree Certificate) from the China Higher Education Student Information Network (CHSI) website sent directly to the Graduate School of Engineering, Kobe University.

* Email address for electronic verification: eng-kyomugakusei@office.kobe-u.ac.jp
* Forwarding of the electronic verification email received by the applicant themselves is not permitted.

●Prospective Graduates

Submit the original copy of the Certificate of Expected Graduation issued by your home university at the time of application. After graduation and obtaining your bachelor's degree, promptly apply to have the electronic verification email for the English-language bachelor's degree certificate (Online Verification Report of Higher Education Degree Certificate) sent directly from the China Higher Education Student Information Network (CHSI) website to the Graduate School of Engineering, Kobe University.

*Email address for electronic verification: eng-kyomugakusei@office.kobe-u.ac.jp
*Forwarding of electronic verification emails received by the applicant themselves is not permitted.
*If the verification certificate is not received by the time of enrollment, admission may be revoked. Additionally, please submit the original graduation certificate by the enrollment deadline.

**TOEIC public test score confirmation service procedure flow**

STEP 1: Login to the TOEIC application website
(TOEIC application site: https://ms.toeic.or.jp/Usr/Pages/Entry/Login.aspx)

STEP 2: Go to the public test application page
Click the "Submit Score to University/Company" button on the bottom right of "Test Results" on the top page.

STEP 3: Select the organization to which you would like to submit your score and the test for which you would like to take the test.
Enter the application code (application code "00010407" for Kobe University Graduate School of Engineering) in the "Select the organization to submit scores to" and click the "Search" button. Next, select the test you wish to submit in the "Test Type Selection" section, and click the "Next" button.

STEP 4: Select the score you wish to submit from the TOEIC Listening & Reading public test taken on or after August 25, 2024, and click the "Next" button.

STEP 5: Confirm the submission details and terms and complete the submission.
Confirm the application code, the name of the test site, the submitted score, and the terms, check the checkbox for agreement to the terms, and click the "Submit" button. You can check your submission history from "Score Submission List" in the "Test Result List".

**4. ID for the Examination**

Please download your ID for the examination from the My Page of the Online Application website.

You will receive a notification email at the email address registered on the Online Application website once the ID becomes available for download.

Print the downloaded ID for the examination in color and bring it with you on the day of the exam.

If you do not receive the notification email by **Wednesday, January 13,2027,** please contact the Academic Affairs Section.

**5. Methods, Dates, and Place of Examination**

The decision on enrollment is made based on the overall evaluation of the results of a written examination and an interview. Any candidate who has not undergone the written examination or interview is exempted from the evaluation for enrollment. See the table on the appendix (pages 12 to 15) for the subjects of the written examination and the date, time, and venue of the interview.

**6. Announcement of Successful Applicants**

**February 9, 2027 (Tue) 10:00 a.m.(scheduled)**

You can check the selection results on the My Page of the Online Application website.

*Inquiries will not be accepted via telephone.

**7. Admission Procedures**

(1) Procedure for Enrollment

The procedure for enrollment will be completed by post. Please be aware that late submission of admission procedures will not be accepted under any circumstances, including but not limited to user errors, misinterpretation of the results, device issues or network problems.

(2) Period and Documents for Admission Procedures

The period for enrollment procedures is scheduled for mid-March of 2027. The detailed schedule will be mailed (via postal services) by late February of 2027, together with the documents required for enrollment.

(3) Payments upon Admission

| Category | | Amount | Notes |
|---|---|---|---|
| Admission fee | | 282,000 JPY | Please make the payment within the enrollment period. |
| Tuition fee | for the first semester | 267,900 JPY | Tuition fees for the first semester are due in April. Payment is to be made by direct debit from the tuition fee transfer account submitted via web registration at the time of enrolment procedures. [If tuition fees are revised in the program of your curriculum, the revised tuition is applicable as of the time of the revision.] |
| | Annual Tuition | 535,800 JPY | |

(Note 1) The prices indicated above are the actual prices for AY 2026.

(Note 2) The paid admission fee is not refundable on any basis.

**8. Important Notes**

(1) General Notes

(i) An applicant may apply to one department only. An applicant may not apply to two or more departments.

(ii) No revisions to the information as written and completed at the time of the application are allowed thereafter. The paid examination fee is not refundable on any basis, except for the instance where the application documents have not been submitted, or where the application has been rejected.

(iii) Please bring your ID for the Examination with you on the day of your examination.

(iv) The applicant may use a watch or clock with timekeeping functions only.

(v) The Graduate School does not make any referral to any lodging facility for the examination.

(vi) If you are physically impaired and require special attention, please notify the Graduate School of it two weeks prior to your application.

(vii) There may be changes to the application guidelines and enclosed documents due to natural disasters (earthquake, typhoon and so on) or a disruption of public transportation, etc. If there are any such changes, we will inform you through the website. Please check the website frequently until the examination day.

(2) Important Notes to Applicants

For applicants to the Department of Architecture, the applicant may not bring or present any material to demonstrate previous professional achievements (e.g. completed works) in the interview for the Master's Degree Program (Enrollment in April 2027) at the Graduate School.

**9. Screening of the Applicants under Eligibility (5)**

An eligibility evaluation is administered for applicants seeking to apply under this eligibility. (See page 16～17)

**10. Handling of Personal Data**

(1) Kobe University complies with legislation such as the "Act on the Protection of Personal Information, Act No. 57 of May 30, 2003" when handling applicants' personal information, based on the "Guideline on the Control of Personal Information Held by Kobe University."

(2) Personal information including the individual results of screening shall be used for screening (application procedures, conducting screening), announcement of successful applicants, enrollment procedures, future screening methods, and surveys/research aimed at improving university education. The results of these surveys/research will be published without information that could identify specific individuals.

(3) The personal information of enrolled students provided for the application will be used for supporting the students after enrollment (health management, tuition fee exemption or scholarship application), educational purposes (registration, academic instruction), tuition-fee related matters, and other corresponding work.

(4) Part of these operations may be outsourced to an agency (hereafter referred to as "Agency"). In cases where operations are outsourced, all or part of the personal information provided will be provided to such an Agency under a nondisclosure obligation within a certain limit necessary for the Agency to execute the operations.

**11. Control and Prevention of Infectious Diseases**

**Submission of a certificate demonstrating inoculation and an antibody test against measles and rubella**:

Kobe University has implemented the Measles and Rubella Registration Policy, and all newly enrolled Kobe University students must submit one of the following three certificates (①, ②, or ③) to prevent a possible outbreak of measles and rubella on campus.

① A vaccination certificate to prove that you have received two doses each of the measles and rubella vaccine after turning one year old (recommended)

② A vaccination certificate to prove that you were inoculated with measles and rubella vaccines each with-in the last five years (since April 2022).

③ An antibody certificate to prove that you have sufficient antibody titer in your blood (refer to the chart next page) to prevent the development of measles and rubella, based on the results of an antibody test performed within the last five years (since April 2022)

＊ For ① and ②, a combined vaccine against measles and rubella (e.g., MR vaccine) is permissible.

＊ For ① and ②, the certificate must be issued by an accredited medical institution and state the type of vaccine and the date of inoculation.

＊ If you have a history of measles or rubella, please submit ③ or receive a vaccination and submit ① or ②.

＊ For ③, the certificate must specify the measuring method and the measured values of antibody titer in your blood (refer to the next page), and it must satisfy the judging standard listed in the chart. A blood test report sheet itself can be accepted for submission. If the antibody titer in your blood is insufficient, you must receive the necessary vaccination, and submit either ① or ②.

＊ You may submit a combination of ①, ②, and ③ (e.g., ① for measles and ③ for rubella).

＊ If your antibody titer level is below the threshold, yet you are unable to receive the vaccinations due to certain circumstances (such as illness or specific body conditions), please provide an official document (like a medical certificate) that explains the reason.

Procedure, deadline, and location for submission

・All successful undergraduate and graduate applicants enrolling in April:
Please submit at the time of the medical checkup for new students scheduled in April.

**Measuring methods and judging standards for blood antibody titers**

| | Measuring Method | Judging Standard | Remarks |
|---|---|---|---|
| Measles | IgG－EIA method<br>PA method<br>NT method | 8.0 ≦ positive<br>256x ≦ positive<br>4.0x ≦ positive | Positive result by one of these three methods. |
| Rubella | HI method<br>IgG－EIA method | 32x ≦ positive<br>8.0 ≦ positive | Positive result by one of these two methods. (HI method is recommended) |

＊ Antibody testing is not required if the vaccination history meets the requirements or if additional vaccinations are given.

＊ Make sure the above methods are followed when the antibody titer is measured in your blood.

＊ The protective antibody value differs according to the measuring method used. Please note that **the judging standards are higher than the usual standards used at medical institutions.**

＊ Before visiting a medical institution, please confirm in advance whether you can receive the necessary antibody tests and/or the vaccinations.

When you visit a doctor at a medical institution, make sure to present this document to obtain the necessary certificate(s). (In particular, when taking an antibody test, please ensure the measurement methods meet the above criteria.)

＊ Points to Consider when Submitting a Certificate:

① Please bring the original certificate and one set of copies (A4 size).

② If the certificate is written in a language other than Japanese or English, please attach a document that shows either a Japanese or English translation.

For further information, please refer to:
Healthcare Cente, Kobe University Tel: +81-78-803-5245
Student Support Division, Student Affairs Department, Kobe University Tel: +81-78-803-5219

**12. Other Information**

The Graduate School has exemption programs from admission fee and tuition fees, as well as scholarship programs as part of the educational support.

## Appendix

Subjects, marks allocated, date, and place of examinations

### Subjects and marks (for the Special Entrance Examination for International Students) (AY 2027 Round 2)

An English-language written exam is available. Please apply for the English-language written exam using the application form. For applicants to the Departments of Architecture, Civil Engineering, and Chemical Science and Engineering who request an English-language written exam, the examinations will be provided in both English and Japanese. For the applicants to the Department of Electrical and Electronic Engineering and the Department of Mechanical Engineering who request an English-language written exam, the written tests will be provided in English only.

| Department | Subjects(Numbers in the bottom row are allocated points) | | | | | Total points | Items to be used except for writing utensils(note5) |
|---|---|---|---|---|---|---|---|
| | Special subject (1) | Special subject (2) | Special subject (3) | Foreign language (Note 1) | Interview | | |
| Department of Architecture | Applicants for a lab in group A must take Architectural Planning, Urban Planning and History of Architecture examinations. | Applicants for a lab in group B must take Building Structure and Structural Material examinations. Applicants for a lab in group C must take the Environmental Engineering examination. | | English | Interview | 250 | Not available<br>Calculators can be borrowed. |
| | 200 | 200 | | 50 | (Note 4) | | |
| Department of Civil Engineering | Mathematics (Linear algebra, differential and integral calculus, differential equations, and probability and statistics) | Structural mechanics, hydraulics, soil mechanics, infrastructure planning and management<br>Select two of the four subjects listed above. | | English | Interview | 400 | Ruler<br>Calculators can be borrowed. |
| | 100 | 200(100 per subject) | | 100 | (Note 4) | | |
| (Note 2) Department of Electrical and Electronic Engineering | Mathematics (Linear algebra, differential and integral calculus, ordinary differential equations, complex function theory, and Fourier analyses) Electric and electronic Circuits | Electronic physics, Electronic informatics (Note 3) Select one of the two - subjects listed above. | | English | Interview | 440 | Not available |
| | 160 (Mathematics 100,Electric and electronic Circuits 60) | 180 | | 100 | (Note 4) | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Department of Mechanical Engineering | Mathematics (Linear algebra, differential and integral calculus, ordinary differential equations, complex function theory, and Fourier analyses) | Fundamental mechanics (mechanics of point masses and rigid bodies) | Mechanics of materials, Fluid dynamics, Thermodynamics, Vibration and control engineering<br><br>Select two of the four subjects listed above. | English | Interview | 500 | Not available |
| | 100 | 100 | 200 (100 per subject) | 100 | (Note 4) | | |
| Department of Chemical Science and Engineering | Short essay | | | English | Interview | 400 | Not available |
| | 150 | | | 150 | 100 | | |

(Note 1) Evaluated by the TOEIC or TOEFL score. For information on score validity, please refer to "3. Application Period and Procedures."

(Note 2) Please visit our Department of Electrical and Electronic Engineering home page for an overview of the problems covered in the special subject examinations. (http://www.eedept.kobe-u.ac.jp) (in Japanese)

(Note 3) Select one subject out of the special subjects (2) listed below and designated by the education and research field of your first preference for the Department of Electrical and Electronic Engineering.

(Note 4) The oral examination is judged on a pass/fail basis.

| Education and research field number | Special subject (2) |
|---|---|
| 1-5 | Electronic physics<br>(Three fields: Electromagnetics, quantum material engineering, semiconductor device engineering) |
| 6-10 | Electronic informatics<br>(Select three of the four fields:<br>Logic circuits, information and communication engineering, data structures and algorithms, data science) |

(Note 5) Writing utensils refer to black pencils, pencil caps, mechanical pencils (only black lead), plastic erasers, and small pencil sharpeners. No other items are accepted.

**Examination Dates (for Special Entrance Examination for International Students) (AY 2027 Round 2)**

Department of Architecture

| Date | Time | Subjects |
|---|---|---|
| Jan. 20 (Wed) | 10:00–12:00 | Special Subject (1): Architectural Planning; Urban Planning and History of Architecture<br>(Only for the applicant applying for a faculty member of group A)<br>Special Subject (2): Building Structure and Structural Material<br>(Only for the applicant applying for a faculty member of group B)<br>Special Subject (2): Environmental Engineering<br>(Only for the applicant applying for a faculty member of group C) |
| | 14:00– | Interview |

Department of Civil Engineering

| Date | Time | Subjects |
|---|---|---|
| Jan. 20 (Wed) | 10:00–12:05<br>(Note) | Special Subject (2):<br>Structural Mechanics<br>Hydraulics<br>Soil Mechanics<br>Infrastructure Planning and Management<br><br>Select two of the four subjects listed above. |
| | 13:00–14:00 | Special Subject (1): Mathematics |
| | 15:30– | Interview |

(Note) You will have two hours to answer two subjects. There will be no breaks

Department of Electrical and Electronic Engineering

| Date | Time | Subjects |
|---|---|---|
| Jan. 20 (Wed) | 9:30–11:00 | Special Subject (1): Mathematics |
| | 11:30–12:30 | Special Subject (1): Electric and Electronic Circuits |
| | 14:00–16:00 | Special Subject (2) |
| Jan. 21 (Thu) | 14:00–17:00 | Interview |

Department of Mechanical Engineering

| Date | Time | Subjects |
|---|---|---|
| Jan. 20 (Wed) | 9:30–11:00 | Special Subject (1): Mathematics |
| | 11:20–12:20 | Special Subject (2): Fundamental mechanics |
| | 13:20-15:20<br>(Note) | Special Subject (3):<br>Mechanics of materials<br>Fluid dynamics<br>Thermodynamics<br>Vibration and control engineering<br><br>Select two of the four subjects listed above. |
| | 16:00– | Interview |

(Note) You will have two hours to answer two subjects. There will be no breaks

Department of Chemical Science and Engineering

| Date | Time | Subjects |
|---|---|---|
| Jan. 20 (Wed) | 10:00–11:30 | Short essay |
| | 14:00– | Interview |

**Place of Examination**

Kobe University Graduate School of Engineering Building (address: 1-1, Rokkodai-cho, Nada-ku, Kobe.)

【Access to Kobe University Graduate School of Engineering Building】

Hanshin “Mikage” station, JR “Rokkomichi” station, or Hankyu “Rokko” station.

Kobe City Bus No. 16 (bound for Rokko Cable)

Shindai Kokusai Bunkagaku Kenkyuka Mae, 5 min on foot to the Rokkodai Campus

# Screening of the Applicants under Eligibility (5)

**1. Required Qualifications**

The individual must have been verified to have the academic ability equivalent to or better than the ability of the individuals who have completed an undergraduate curriculum after an application qualification evaluation by the Kobe University Graduate School of Engineering on an individual basis, and the individual is going to be 22 years of age or older by March 31, 2027.

(Note) The individual who has been "approved to have the academic ability equivalent to or better than the ability of the individuals who have completed an undergraduate curriculum after an application qualification evaluation by the Kobe University Graduate School of Engineering on an individual basis" refers to individuals who have graduated from a junior college, technical college, or vocational school, or have completed a curriculum offered by a school in the "miscellaneous" category, and have been approved to have the academic ability equivalent to or better than the ability of the individuals who have completed an undergraduate curriculum after an application qualification evaluation on an individual basis.

**2. Application Eligibility Evaluation**

An eligibility evaluation is administered by the Kobe University Graduate School of Engineering on an individual basis for an applicant seeking to apply under this eligibility.

(1) Application procedures

Application term: from Wednesday, November 25, 2026 to Friday, November 27, 2026.

Applications are accepted from 9:30 a.m. to 4:00 p.m. (except for 12:00 p.m. to 1:00 p.m.)

(2) Submission address of the application documents for eligibility evaluation:

Kobe University Graduate School of Engineering,

Student Affairs Section, 1-1, Rokkodai-cho, Nada-ku, Kobe 657-8501

Tel: +81-(0)78-803-6350

In the case of mailed applications, the application must be sent via registered express service and delivered to the Graduate School by 5:00 p.m. Friday, November 27, 2026.

Also, please add **"Application Documents for the Eligibility Evaluation of Master's Degree Program (Enrollment in April 2027) at Graduate School of Engineering Inside"** in red color written on the front of the envelope.

(3) Documents to submit

(i) Application for Eligibility Evaluation (the form designated by the Graduate School)

(ii) Certificate of graduation issued by the last educational institution attended (in Japanese or English)

(iii) Academic Transcript issued by the last educational institution attended (in Japanese or English)

(iv) Envelope designated for response (a standard size envelope with the applicant's mailing address, first and last names clearly indicated, and attached with the postage stamp/stamps of 410 JPY)

Please download the application form and letter of recommendation form from the Graduate School of Engineering website (https://www.eng.kobe-u.ac.jp/examinee/master_202701.html).

(4) Evaluation Method

The applicant is evaluated by the documents.

(5) Notice of the results of application eligibility evaluation

The results will be notified to the applicant by Monday, December 7, 2026.

**3. Application Procedures**

If you have qualified for application eligibility through the application eligibility evaluation, please complete the application procedures pursuant to this Application Guide. (In this instance, the academic transcript or certificate of graduation (or completion) included in the list of application documents are not required.)

# Ⅱ Information on the Master's Program Curricula (Enrollment in April 2027) of the Graduate School of Engineering

## 1. Educational Philosophy and Objectives

The Graduate School of Engineering aims to develop applied research activities that contribute to society and at the same time promote fundamental scientific research activities based on the belief that engineering should give back its scientific progress to society. To enable the Graduate School to achieve its aim, five departments are established: the Department of Architecture to create living space in society that excels in safety, comfort, convenience, and balance with the environment; the Department of Civil Engineering to promote safety and symbiosis with the environment in urban and suburban spaces; the Department of Electrical and Electronic Engineering to construct the foundation for the information society with electronic materials, electronic information devices, and data processing technology; the Department of Mechanical Engineering to create the various kinds of machinery including energy, transportation, and production machinery and robots; and the Department of Chemical Science and Engineering to invent and explore the mechanism of functional materials and to create and advance the material production processes. The objective of the first term of the Master's Programs at the Graduate School is to engage in education and research to cultivate talent with broad knowledge and an interdisciplinary viewpoint, in particular professionals of excellence with multiple points of view and abundant creativity. The objectives for the second term of the programs are to further expand and explore education in the first term of the respective departments, and at the same time promote education and research to nurture researchers and faculty members at higher educational institutions and expert professionals of more advanced levels.

## 2. Approach and Features of Program Curricula

The first term of the programs offers a kind of education that attracts a wide breadth of talent and that is aligned with the talent cultivation policy after the completion of the programs. The second term of the programs continues to deliver higher levels of technical education that is consistent with the first term, whereas the newly enrolled students from the second term are provided guidance on an individual basis. The Graduate School is currently offering Master's Programs that cover highly specialized and diverse academic areas of engineering to successfully satisfy the students' ambition for improvement, and now it is introducing coursework, and industry-academia collaborative education featuring work experience.

Digital Medical Engineering Creation Course:

In order to develop advanced medical devices that provide solutions to the various problems that Japan's healthcare system is facing today, there is a need for human resources who can create innovations by acquiring fundamental knowledge for device development from both life and medical science perspectives, and who are able to capture the needs of the medical field and translate them into commercialization. In response to this, Kobe University will offer a new course, the Digital Medical Engineering Creation Course, in April 2021 at the Graduate School of Engineering, as a place for creative education to achieve the full potential of the medicine and engineering collaboration. This cross-disciplinary educational program will be implemented across multiple graduate schools of Kobe University (Graduate School of Engineering, Graduate School of Medicine, Graduate School of Health Sciences, etc.). In this course, students will learn about concept development and manufacturing of new devices, with a specific emphasis on medical device development that enables practical applications in the medical field.

This course has the following features. (i) Students will develop specialized knowledge and multifaceted thinking in life/medical science and engineering fields through a cross-disciplinary curriculum and team-based development practices in collaboration with different disciplinary fields. (ii) Students will be able to experience needs identification through visits to the sites of medical operations. (iii) Students will gain a broad range of hands-on experience, such as medical device development and robot hand control, through practical training at the Medical Device Hands-on Studio in Kobe University research hospital.

If students meet the requirements of the course, they will receive a certificate of completion. The course is designed for students who are interested in advanced medical technology and the application of engineering principles to medicine. Those who are able to set their own goals and tackle their challenges with an inquiring mind are encouraged to participate in this course.

Master's Degree Accreditation Procedures:

A midterm presentation meeting on the progress and future plan of the research will be held in the second term of the first year to the first term of the second year to offer proper guidance for the drafting of master's degree theses. Furthermore, the progress of the students in learning technical knowledge will be verified in the second term of the second year before moving forward to the submission and evaluation of the master's degree theses (including the presentation meeting for the master's degree theses). The midterm presentation meeting on the progress of research and the presentation meeting for the master's degree theses will be held by the respective departments to establish a system for each department as a whole to work on the research and guidance. The presentation meeting for the master's degree theses is held in the first year in the case of earlier completion.

**3. Departments, Divisions, and Fields of Education and Research**

| (Department) | (Division) | (Education and Research Field) |
|---|---|---|
| Department of Architecture | Spatial Design | 4 fields |
| | Architectural Planning | 4 fields |
| | Engineering of Building Structures | 3 fields |
| | Architectural Environmental Engineering | 2 fields |
| Department of Civil Engineering | Engineering of Human Safety | 6 fields |
| | Engineering of Environmental Symbiosis | 6 fields |
| Department of Electrical and Electronic Engineering | Physical Electronics | 5 fields |
| | Computer and Information Engineering | 5 fields |
| Department of Mechanical Engineering | Heat Transfer and Fluid Engineering | 3 fields |
| | Materials Physics and Mechanics | 3 fields |
| | System Design | 3 fields |
| | Innovative Materials and Nano Engineering | 2 fields |
| Department of Chemical Science and Engineering | Applied Chemistry | 3 fields |
| | Chemical Engineering | 3 fields |
| (Total) 5 departments | 14 divisions | 52 fields |

## 4. Department Details

### Department of Architecture

Architecture is one of the most universal fields of learning, concerning the creation of housing, architectural facilities, and other bases of human life. In order to address the emerging architectural challenges, it is necessary to foster human resources capable of "spatial design" to study basic fields of architecture, such as design and planning, structural engineering, and environmental engineering, and to provide specific solutions for the challenges by integrating the learning from the basic fields.

The curriculum at the Department of Architecture provides education and undertakes research in order to produce practical talents to create safer and enhanced space for living comprising (i) integrated and practical design encompassing architectural and environmental design, management of structural engineering and designing; structural and information systems, and environmental management, (ii) basic theory of the architectural design including history and theory of architecture, conservation and restoration theory for historical environments, dwellings and planning of housing and areas, urban and architectural safety and architectural planning, and basic theory of urban planning; (iii) broad range of research and education for improvement of safety and resilience of building structures against natural and human-made hazards and for advanced structural design, performance evaluation, proposal and application of novel technologies: structural controls and high-performance materials; and the (iv) analysis and control of acoustical, thermal, aerial and lighting environment of buildings.

### Department of Civil Engineering

The Department of Civil Engineering enrolls students who intend to be in charge of the public services that are much-needed in society, and develops practical and highly skillful talents with comprehensive cross-disciplinary points of view and technical knowledge across the traditional civil engineering areas. The department sees the broad engineering area encompassing urban redevelopment, citizen participation, and internationalization as the new Civil Engineering for the 21st century. The department delivers education and research related to safety in urban and regional areas, and to environmental symbiosis based on education on environmental conservation and maintenance and restoration of urban facilities. We aim to create cities and areas that are safe against natural and social disasters and symbiotic with nature. The Department of Civil Engineering has two divisions including the Human Safety Engineering Division and Environmental Symbiosis Engineering Division.

### Department of Electrical and Electronic Engineering

The current expectations for fundamental research at universities are the highest ever in the electrical and electronic engineering fields as the fields are facing critical research subjects, including the development of nano-structured materials; neo-functional materials; quantum effect materials and devices; ultra-gigabit scale chips; large capacity communication shifting from terabit to petabit; next-generation super capacity computers; artificial intelligence attempting to achieve the functionality of human brain; development of new electric energy technology; and the application of electrical and electronic engineering technologies to the environment, medical, safety, and bioengineering fields.

The Department of Electrical and Electronic Engineering is designed to meet these expectations, and based on a new concept where electronic physics and electronic information are functionally integrated. The notable feature is an organization that allows for integrated education and research at graduate school from hardware and software to systems at the electronics and information engineering. The basic study and research subjects include the physical properties of electronic materials and device physics;

the theory and technology of exchange, transfer, and processing of data; conversion, transmission, and control of electromagnetic energy; and the basics of new energy systems. The department aims to organize curricula with a wider variety of subjects in order to cultivate talents with higher levels of basic academic capability in specialized fields and basic research capability.

Department of Mechanical Engineering

Mechanical engineering is an academic field that forms the foundation to support industrialized society and information society. The department provides education and research in machines and related fields to design, manufacture, and control a highly complicated mechanical system while maintaining harmony with society and the environment. This is achieved by integrating and synthesizing many advanced and sophisticated technology elements both from the hardware and software of environment, energy, nanotechnology, robotics, design systems, and production systems. During the program of the first term, the department nurtures talents with high levels of basic academic capability in specialized fields and basic research capability, as well as an ethical and cosmopolitan way of thinking, to be leader of society in the future. The department then cultivates talents with interdisciplinary ways of thinking to be able to carry out unique research and development in the second term. To achieve this, the Department of Mechanical Engineering offers four divisions including Heat Transfer and Fluid Engineering, Materials Physics and Mechanics, System Design and Innovative Materials and Nano Engineering.

Department of Chemical Science and Engineering

The Department of Chemical Science and Engineering freely integrates subjects from a broader area from fundamental chemistry at micro and molecular levels to the addition and expression of functionality of chemical substances as the amalgamated form of molecules, creation of substances, engineering method of application of biological functions, and to the actual macro-level industrial production and production technologies and systems based on a new set of standards thereby seeking to cultivate researchers and engineers to lead the chemical industry in the future on a global level. The department offers education and research on the analysis of structure and physical properties in the orders of molecule to nano, creation of highly functional substance and materials, biomaterial including application technologies of biological functions, development of bioreactors, chemistry technology, production technology, advancing isolation and refining technologies, and analysis and application of processing system as a whole. To achieve this, the Department of Chemical Science and Engineering has two divisions: Applied Chemistry and Chemical Engineering.

５． Education/Research Fields， Staff and the Study Contents (Keyword)

**Department of Architecture**

As of April 1, 2027

| | Number | Education/Research Fields | Staff | The Study Contents |
|---|---|---|---|---|
| A Group (Note 1) | 1 | History of Architecture | NAKAE Ken | History of Modern Architecture, Theory of Architecture |
| | 2 | | YASUDA Tetsuya | History of Japanese Architecture |
| | 3 | Theory of Architecture | SUEKANE Shingo | Theory and Design of Architecture |
| | 4 | Urban and Regional Planning | KURIYAMA Naoko | Urban Landscape Policy, Urban Planning, Urban Design |
| | 5 | Architectural Design and Environmental Design | TSUKIHASHI Osamu | Practical Theory for Architecture and Urban Design |
| | 6 | Planning for the Built Environment and Disaster Risk Reduction | KONDO Tamiyo | Planning for the Built Environment and Disaster Risk Reduction, Housing Mitigation and Recovery |
| | 7 | | OTSUYAMA Kensuke | Planning for Disaster Management, Climate Change Adaptation, Residential Mobility |
| B Group (Note 1) | 8 | Steel Structures | NAMBA Hisashi | Seismic Behavior of Steel and Timber Structures |
| | 9 | | ASADA Hayato | Structural Engineering, Steel Structure, Composite Structure, Connection， Welding Procedure |
| | | Reinforced Concrete Structures | | Earthquake-Resilient Stuctures, Reinforced Concrete Structures, Concrete-Filled Steel Tubular Structures, Seismic Design, Seismic Retrofit |
| | 10 | | TAKEUCHI Takashi | Resilient Stuctures, Reinforced Concrete Structures, Wind-Resistance Engineering, Wind-Induced Damage Analysis |
| | 11 | Structural Dynamics and Mechanics | MUKAI Yoichi | Structural Control, Structural Monitoring, Structural Analysis, Impulsive Action, Wooden Structure |
| | 12 | Structural Engineering and Design | FUJINAGA Takashi | Steel-Concrete Composite Structures, Hybrid Structures, Seismic Retrofitting |
| | 13 | | MIZUSHIMA Yasunori | Finite Element Analysis, Super-Detailed Structural Model, Collision Problem, Behavior Analysis of Building under Construction |
| | 14 | Structural and Information Systems | YAMABE Yuichiro | Structural Planning, Optimization of Structural System, Behavioral Simulation |
| C Group (Note 1) | 15 | Planning of Acoustical and Lighting Environments | SAKAGAMI Kimihiro | Measurement, analysis and evaluation of acoustic environment, Numerical acoustic simulation, Control of acoustic environment |
| | 16 | | SATO Hayato | Evaluation of Sound Environment, Speech Transmission Performance, Speech Privacy, Outdoor Public Adress System |
| | 17 | Thermal Environmental Planning | TAKADA Satoru | Architectural environmental system, Simultaneous heat and moisture transfer, Thermal comfort, Heat transfer in buildings, Hygrothermal material properties |
| | 18 | | FUKUI Kazuma | Evaluation of hygrothermal environment, Building Physics, Hygrothermal simulation, Moisture damage, Building preservation |
| | 19 | Environmental Management | SUZUKI Hirotaka | Lighting Environment Planning, Visual Environment Analysis, Daylighting, Lampshade Design |
| | 20 | | TAKEBAYASHI Hideki | Urban Thermal Environment, Heat Island, Wind Environment, Green Roof, Energy Conservation |

（Note1） The years of practical experience which you can acquire through this master course to apply for the Architect licence examination vary depending on A, B and C group. Please visit Department of Architecture home page for more details.（http://www.arch.kobe-u.ac.jp/）

**Department of Civil Engineering**

As of April 1, 2027

| Divisions | Number | Education/Research Fields | Staff | The Study Contents(Keyword) |
|---|---|---|---|---|
| Engineering of Human Safety | C1 | Structural Engineering for Urban Safety | MIKI Tomohiro | Structural concrete mechanics, Maintenance, Nonlinear analysis, Structural resilience, Residual performance evaluation, Image analysis |
| | C2 | | TERASAWA Koki | Concrete engineering, Maintenance, Non-destructive evaluation, Steel corrosion, Electromagnetic field response |
| | C3 | Geotechnical Engineering for Urban Safety | TACHIBANA Shinya | Geo-environmental Engineering, Geo-environmental Risk Evaluation, Geo-multiphysics, Constitutive Modeling of Geomaterials |
| | C4 | | TAKAYAMA Yusuke | Geotechnical Engineering, Geological disposal, Coupled analysis of soil, Modeling of mechanical/hydraulic properties of expansive clay |
| | C5 | Transport Systems Engineering | OTAZAWA Toshimori | Infrastructure Economics, Regional Science |
| | C6 | | SEYA Hajime | Geographic information science, Spatial econometrics, Spatial statistics, Travel behavior analysis |
| | C7 | Geotechnical Engineering for Disaster Reduction | TAKEYAMA Tomohide | Geotechnical Engineering, Soil-water coupled FEM, Soil-water coupled SPH, Liquefaction, Landslide, Large-scale simulation |
| | C8 | Earthquake Disaster Mitigation Engineering | KUWATA Yasuko | Lifeline earthquake engineering, Strong ground motion assessment, Seismic response analysis, Experiment on buried pipe, Earthquake disaster prevention, Seismic risk assessment |
| | C9 | River System Engineering for Disaster Reduction | TSUBAKI Ryota | River engineering, Flow image analysis, Inundation analysis, Flood measurement, Turbulent flow analysis, Local remote sensing |
| Engineering of Environmental Symbiosis | C10 | Environmental Fluid Engineering | UCHIYAMA Yusuke | Coastal engineering, Coastal oceanography, Ocean waves, Turbulence, Ocean modeling, Ocean environment |
| | C11 | | SAITO Masahiko | Hydraulics, Groundwater hydrology, Environmental groundwater modeling, Seepage flow simulation, Multi-phase flow analysis |
| | C12 | Water Environment Engineering | NAKAYAMA Keisuke | Environmental Engineering, Applied Ecology, Environmental Fluid Dynamic, Climate Change, Solitary Wave, Internal Wave |
| | | Geosphere Environmental Engineering＊ | | |
| | C13 | Geo-environmental Engineering | OISHI Satoru | Information Civil Engineering, Application of Meteorology to Disaster Mitigation, Quantitative Precipitation Estimation by Electromagnetic wave, Hydrology, Water Resources |
| | C14 | | ADACHI Sashiho | Mesoscale meteorology, Local climate, Regional climate modeling,Urban climate, Land–atmosphere interactions |
| | C15 | Urban Preservation Engineering | HASHIMOTO Kunitaro | Steel structure, Hybrid structure, Connection, Load carrying capacity, Seismic design, Corrosion, Fatigue |
| | C16 | Urban Systems Engineering and Management | KOIKE Atsushi | Infrastructure Planning and Management, Project Evaluation, Applied Economics, Cost Benefit Analysis |
| | C17 | | SEGI Shunsuke | Relation between Transportation Infrastructure and Spatial Distribution of Population and Industries, Investment and Operation Strategy of Infrastructures, Urban Economics, Transportation Economics |
| | C18 | | TSURUTA Hiroki | Value Engineering, Consensus Building, Social System, Industrial System,Resilience, Design Thinking, System Thinking |

（Note1）Education/Research Fields marked with ＊ are not selectable.

## Department of Electrical and Electronic Engineering

As of April 1, 2027

| Number | Education/Research Fields | Staff | The Study Contents（Keyword） |
|---|---|---|---|
| 1 | Mesoscopic Materials | FUJII Minoru;<br>SUGIMOTO Hiroshi | Nanophotonics, Plamonics, Metasurface, Metafluid, Structural coloration, Nanobiophotonics, Li-ion battery |
| 2 | Photonic Materials | KITA Takashi(Note1);<br>ASAHI Shigeo;<br>HARADA Yukihiro | Quantum nano-photonics, quantum wells/wires/dots, opto electronics, 3rd generation solar cells, photonic devices, ultrafast spectroscopy, optical nonlinear materials, ultrafast optical communication devices, qunatum information, next generation luminescent devices |
| 3 | Quantum Functional Engineering | KITAMURA Masatoshi;<br>HATTORI Yoshiaki;<br>CHANG Yie-Ren | Thin-film devices, Thin-film transistors, Oxide semiconductor devices, Organic electronics, Flexible electronics materials, Surface-property control, Gas sensors |
| 4A | Nano-Structure Electronics | SOUMA Satofumi | Nanoscale device modeling and simulation, Device-circuit co-simulation, Optical device design and simulation, Neuron-synapse device design and simulation, Quantum bit device design, Quantum conputational algorithm and machine learning assisted nanoscale device simulation |
| 4B | | ONO Tomoya;<br>UEMOTO Mitsuharu | Computational Materials & Device Design, Power Electronics, Spintronics, Molecular Electronics, First-Principles Electronic-Structure & Transport-Property Calculation, Surface & Interface Physics |
| 5 | Electromagnetic Energy Physics | TAKENO Hiromasa(Note1);<br>FURUKAWA Takeru | electromagnetic phenomena, magneto-hydro-dynamics, low pressure plasma, intensive electromagnetic wave, radio-frequency plasma discharge, helicon wave, nuclear fusion, direct power generation, space propulsion, magnetic nozzle plasma acceleration |
| 6 | Integrated Circuit Information | IZUMI Shintaro;<br>KUROKI Nobutaka | Integrated Circuit Design, High Performance System Design, LSI CAD, Digital Signal Processing, Image Processing, Visual Information Processing, Multimedia Recognition |
| 7 | Computer Engineering | TSUKAMOTO Masahiko;<br>TERADA Tsutomu;<br>OHNISHI Ayumi | Wearable computing, Ubiquitous computing, Entertainment computing, Human-Computer Interaction, Sensor network, activity/context recognition |
| 8 | Information and Communication Engineering | SHIRAISHI Yoshiaki;<br>KUZUNO Hiroki | Cyber Security, System Security, Internet Applications, Mobile Communications,<br>Network Security, Computer Security, Information Hiding, Data Compression, Cryptography, Coding Theory, Information Theory, Networking, Cyber Threat Intelligence |
| 9 | Algorithms | NAKAMURA Masahide;<br>WATANABE Hiroki | Algorithms, Data Structures, Graph Theory, Combinatorial Optimization, Computational Complexity, Software Engineering, Service Computing, IoT, Smart Systems |
| 10 | Intelligent Learning Theory | OZAWA Seiichi;<br>OMORI Toshiaki;<br>ITO Mari;<br>INOUE Hiroaki | Computational Intelligence, Machine Learning, Statistical Learning Theory,<br>Neural Networks, Probabilistic Information Processing,<br>Dynamical System Estimation, Pattern Recognition, Data Mining, Informaiton Security |

（Note1）The faculty member is scheduled to retire in March 2028.

## Department of Mechanical Engineering

As of April 1, 2027

| Divisions | Fields Code | Education/Research Fields | Staff | The Study Contents（Keyword） |
|---|---|---|---|---|
| HEAT TRANSFER AND FLUID ENGINEERING | MH-1 | Advanced Fluid Engineering | IMAI Yohsuke<br>KATAOKA Takeshi | Computational biomechanics, Biofluid mechanics, Computational fluid dynamics, Digestive fluid mechanics, Capsules and cells, GPU computing, Nonlinear flow phenomena, Water wave, Internal gravity wave, Breaking wave, Acoustic wave, Stratified fluid |
| | MH-2 | Multiphase Fluid Dynamics | HAYASHI Kosuke<br>KURIMOTO Ryo<br>ZHANG Huacheng | Bubble dynamics, Drop dynamics, Mass transfer, Computational multiphase flow dynamics, Nuclear thermalhydraulics, Gas-to-liquid, Multiphase flows in microchannels, Two-phase pipe flows |
| | MH-3 | Energy Conversion Engineering | ASANO Hitoshi<br>MURAKAWA Hideki<br>SUGIMOTO Katsumi | Boiling and condensation heat transfer, Heat exchanger, Thermal control devices, Ultrasonic measurement, Neutron radiography, Fuel cell, Refrigerating and heat pump system, Geothermal utilization |
| MATERIALS PHYSICS AND MECHANICS | MM-1 | Structural Safety Evaluation | SHIOZAWA Daiki | Structural integrity evaluation, Inverse problem, Non-destructive evaluation, Maintenance engineering, Infrared measurement, Teraheltz electromagnetic waves measurement |
| | MM-2 | Fracture Control Engineering | | |
| | MM-3 | Structural and Functional Materials | HASEBE Tadashi | Utilizing surfaces and interfaces to improve performance of materials, Heat resistance structural materials, Functional materials for energy harvesting devices, Multiscale simulations for analysis and predicting material performances |
| SYSTEM DESIGN | MA-1 | Function-Oriented Robotics | TAZAKI Yuichi<br>NAKADATE Ryu | Robotic Hand, Teleoperation System, Haptic Device, Hydraulic Robot, Biomechanics of Human Hand, Walking Robot, Mobile Robot, Environment Recognition, Map Generation |
| | MA-2 | Sensing Device Engineering | KANNO Isaku<br>HIDA Hirotaka<br>KWEON Sanghyo | Thin film, Sensor, Actuator, Piezoelectric device, micro-TAS, Plant in a chip, Energy harvesting, Thin-film battery, micro-robot, Acoustic device, Piezoelectric thin film, Ferroelectric thin film, Photocatalyst thin film |
| | MA-3 | Advanced Manufacturing Systems | SUZUKI Norikazu | Cutting, Grinding and Polishing Processes, Semiconductor Manufacturing, Machine Tools, Monitoring Simulation, Data Assimilation, Digital Twin, Cyber-Physical Systems, Smart Manufacturing |
| Innovative Materials and Nano Engineering | MI-1 | Nano Electro Mechanical Systems | ISONO Yoshitada<br>SUGANO Koji (Note 1)<br>HONMA Hiroaki | MEMS/NEMS (Micro/nanomachine), Electrostatic Energy Harvester, Zero Power Sensor,Experimental nanomechanics, Semiconductive nanowire, Electret, Surface plasmon,Infrared spectroscopic sensor, DNA sequencing devices |
| | MI-2 | Materials Design and Fabrication Engineering | MATSUMOTO Hiroaki<br>MUKAI Toshiji (Note 1)<br>IKEO Naoko | Structural materials for transportation system, Light weight aerospace metallic materials, Metallic bio-materials, Microstructural design, Materials creation, Microstructure modification, Control of shape and its quality, Biodegradation control |

(Note 1) Department of Medical Device Engineering, Graduate School of Medicine.

## ◎Department of Chemical Science and Engineering

As of April 1, 2027

| Number | Education/Research Fields | Staff | Keywords |
|---|---|---|---|
| 1 | Creative Materials Chemistry | MIZUHATA Minoru;<br>MAKI Hideshi;<br>MINAMIMOTO Hiro | Inorganic materials, Electrochemistry, Materials for energy conversion, Highly concentrated solution, Molten salt chemistry, Liquid phase deposition, Relaxative auto-dispersion, Solid-liquid coexisting systems, NMR spectroscopy, Highly concentrated solution, Hetero-phase effect, Nanomaterials |
| 2 | | OKANO Kentaro;<br>YAMAGUCHI Sho;<br>FENG Yuxuan | Organic synthesis, Natural product synthesis, Development of new reactions, Drug discovery, Functional materials, Novel catalysts |
| 3 | Smart Materials Chemistry | FUNAHASHI Masahiro;<br>HORIKE Shohei;<br>AKIYAMA Azumi | Thin film growth, Orientational and structural characterization, Organic optoelectronic device, Functional liquid crystal, Polarization-functional engineering |
| 4 | Functional Materials Chemistry | MINAMI Hideto;<br>MATSUMOTO Takuya;<br>SUZUKI Nozomu;<br>SUZUKI Toyoko | Soft matter, Polymer synthesis, Polymer particles, Interface, Chirality, Polymer property, Polymer structure, Mechanical property, Adhesion, Composite |
| 5 | | MIYAZAKI Kohei;<br>TSUJIMOTO Shota | Storage batteries, Carbon materials, Water electrolysis, Solid oxide thin films, Electrochemical materials |
| 6 | Separation and Reaction Engineering | MARUYAMA Tatsuo;<br>MORITA Kenta;<br>MAEDA Yuki | Interface, Surface functionalization, Surfactant, Polymer, Biomolecule, Pharmacological activity |
| 7 | | KAMIO Eiji;<br>MATSUOKA Atsushi | Membrane separation, Separation based on reaction and diffusion, Control of microporous structure, Water treatment, Gas separation |
| 8 | Process Engineering | OHMURA Naoto(Note1);<br>KOMODA Yoshiyuki | Process intensification, Process dynamics, Reactor, Functional film |
| 9 | Biochemical Engineering | YAMAJI Hideki(Note1);<br>ICHIHASHI Yuichi;<br>KATSUDA Tomohisa | Bioprocess, Bioreactor, Cell culture engineering, Recombinant protein production, Bioseparation, Hydrogen energy, Photocatalysis, Catalyst process |
| 10 | | OGINO Chiaki;<br>TANAKA Tsutomu;<br>MORI Yutaro | Bioproduction, Biorefinery, Synthetic bioengineering, Protein engineering, Nanobio technology |

（Note1） The faculty member is scheduled to retire in March 2028.